
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2010; month=3; day=17; hr=12; min=10; sec=51; ms=831;]

Validated By CRFValidator v 1.0.3

Application No: 10805177 Version No: 2.0

Input Set:

Output Set:

Started: 2010-03-08 15:55:31.028 **Finished:** 2010-03-08 15:55:33.612

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 584 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 199
Actual SeqID Count: 199

SEQUENCE LISTING

| <110> | Lanc | les, Gregory | 7 M. | | | | | | | | | | |
|---------|-----------------|--------------|--------------|-------------|-------------|-------------|-------|--|--|--|--|--|--|
| | Chen, Francine | | | | | | | | | | | | |
| | Bezabeh, Binyam | | | | | | | | | | | | |
| | Foltz, Ian | | | | | | | | | | | | |
| | Tse, Kam Fai | | | | | | | | | | | | |
| | Jeff | ers, Michae | el E. | | | | | | | | | | |
| | Mesr | ri, Mehdi | | | | | | | | | | | |
| | Star | ling, Gary | | | | | | | | | | | |
| | Meze | es, Peter | | | | | | | | | | | |
| | | amtsov, Niko | olia | | | | | | | | | | |
| <120> | Anti | .bodies Agai | nst T Cell | Immunoglobu | ılin Domain | and Mucin D | omain | | | | | | |
| | 1 (1 | CIM-1) Antiq | gen and Uses | Thereof | | | | | | | | | |
| <130> | 2140 | 2-665 | | | | | | | | | | | |
| <140> | 1080 |)5177 | | | | | | | | | | | |
| <141> | 2004 | 1-03-19 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| <150> | US 6 | 50/456652 | | | | | | | | | | | |
| <151> | 2003 | 3-03-19 | | | | | | | | | | | |
| <160> | 199 | | | | | | | | | | | | |
| <170> | Pate | entIn versio | on 3.5 | | | | | | | | | | |
| <210> | 1 | | | | | | | | | | | | |
| <211> | 509 | | | | | | | | | | | | |
| <212> | DNA | | | | | | | | | | | | |
| <213> | Homo | sapiens | | | | | | | | | | | |
| <400> | 1 | | | | | | | | | | | | |
| tgggtco | ctgt | cccaggtgca | gctgcaggag | tcgggcccag | gactggtgaa | gccttcggag | 60 | | | | | | |
| accctgt | ccc | tcacctgcac | tgtctctggt | ggctccgtca | gcagtggtgg | ttactactgg | 120 | | | | | | |
| agctgga | atcc | ggcagccccc | agggaaggga | ctggagtgga | ttgggtttat | ctattacact | 180 | | | | | | |
| gggagca | acca | actacaaccc | ctccctcaag | agtcgagtct | ccatatcagt | agacacgtcc | 240 | | | | | | |
| aagaaco | agt | tctccctgaa | gctgagctct | gtgaccgctg | cggacgcggc | cgtgtattac | 300 | | | | | | |
| tgtgcga | agag | attatgactg | gagcttccac | tttgactact | ggggccaggg | aaccctggtc | 360 | | | | | | |
| accgtct | cct | cagcctccac | caagggccca | tcggtcttcc | ccctggcgcc | ctgctccagg | 420 | | | | | | |
| agcacct | ccg | agagcacagc | ggeeetggge | tgcctggtca | aggactactt | ccccgaaccg | 480 | | | | | | |
| gtgacgo | gtgt | cgtggaactc | aggegetet | | | | 509 | | | | | | |
| | | | | | | | | | | | | | |

<210> 2 <211> 121

<212> PRT

<400> 2

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu

1 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Gly 20 25 30

Gly Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu 35 40 45

Trp Ile Gly Phe Ile Tyr Tyr Thr Gly Ser Thr Asn Tyr Asn Pro Ser 50 55

Leu Lys Ser Arg Val Ser Ile Ser Val Asp Thr Ser Lys Asn Gln Phe 65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Ala Ala Val Tyr Tyr 85 90 95

Cys Ala Arg Asp Tyr Asp Trp Ser Phe His Phe Asp Tyr Trp Gly Gln 100 105 110

Gly Thr Leu Val Thr Val Ser Ser Ala 115 120

<210> 3 <211> 504

<212> DNA

<213> Homo sapiens

<400> 3

cagctcctgg ggctcctgct gctctggttc ccaggtgcca ggtgtgacat ccagatgacc 60
cagtctccat cctccctgtc tgcatctata ggagacagag tcaccatcac ttgccgggca 120
agtcagggca ttagaaatga tttaggctgg tatcagcaga aaccagggaa agcccctaag 180
cgcctgatct atgctgcatc cagtttgcaa agtggggtcc catcaaggtt cagcggcagt 240
ggatctggga cagaattcac tctcacaatc agcagcctgc agcctgaaga ttttgcaact 300
tattactgtc tacagcataa tagttaccct ctcactttcg gcggagggac caaggtggag 360
atcaaacgaa ctgtggctgc accatctgtc ttcatcttcc cgccatctga tgagcagttg 420
aaatctggaa ctgcctctgt tgtgtgcctg ctgaataact tctatcccag agaggccaaa 480

<210> 4 <211> 108 <212> PRT <213> Homo sapiens <400> 4 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ile Gly 10 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp 25 20 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile 35 40 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly 50 55 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Leu 85 90 Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg 100 105 <210> 5 <211> 469 <212> DNA <213> Homo sapiens

<400> 5 cagtgtgagg tgcagctggt ggagtctggg ggaggcttgg tccagcctgg ggggtccctg 60 agactetect gtgcageete tggatteace tttaetaact attggatgag etgggteege 120 180 caggetecag ggaagggget ggagtgggtg gecaacatae agcaagatgg aagtgagaaa tactatgtgg actctgtgag gggccgattc accatctcca gagacaacgc caagaactca ctgtatctgc aaatgaacag cctgagagcc gaggactcgg ctgtgtatta ctgtgcgaga 300 360 tgggactact ggggccaggg aaccetggte accgteteet cageeteeac caagggeeca

| tcg | gtcti | tcc (| ccct | ggcgo | cc ct | gcto | ccago | g ago | cacct | ccg | agaç | gcaca | agc ç | ggcco | etggge | 420 |
|------------------------------|----------------------|-------------------------|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----|
| tgc | ctgg | tca a | aggad | ctact | t co | cccga | aacco | g gto | gagco | ggtg | tcgt | ggaa | ac | | | 469 |
| <210 <211 <211 <211 | L> : 2> 1 3> 1 | 6 113 PRT Homo | sapi | iens | | | | | | | | | | | | |
| Glu 1 | Val | Gln | Leu | Val 5 | Glu | Ser | Gly | Gly | Gly 10 | Leu | Val | Gln | Pro | Gly 15 | Gly | |
| Ser | Leu | Arg | Leu 20 | Ser | Cys | Ala | Ala | Ser 25 | Gly | Phe | Thr | Phe | Thr 30 | Asn | Tyr | |
| Trp | Met | Ser 35 | Trp | Val | Arg | Gln | Ala 40 | Pro | Gly | Lys | Gly | Leu 45 | Glu | Trp | Val | |
| Ala | Asn 50 | Ile | Gln | Gln | Asp | Gly 55 | Ser | Glu | Lys | Tyr | Tyr 60 | Val | Asp | Ser | Val | |
| Arg 65 | Gly | Arg | Phe | Thr | Ile 70 | Ser | Arg | Asp | Asn | Ala 75 | Lys | Asn | Ser | Leu | Tyr 80 | |
| Leu | Gln | Met | Asn | Ser 85 | Leu | Arg | Ala | Glu | Asp 90 | Ser | Ala | Val | Tyr | Tyr 95 | Суз | |
| Ala | Arg | Trp | Asp 100 | Tyr | Trp | Gly | Gln | Gly 105 | Thr | Leu | Val | Thr | Val 110 | Ser | Ser | |
| Ala | | | | | | | | | | | | | | | | |
| <210 <211 <211 <211 | L> 4 2> 1 | 7 454 DNA Homo | sapi | iens | | | | | | | | | | | | |
| <400 | | 7 ggc t | cgcta | aatgo | ct ct | gggt | ccct | gga | atcca | agtg | ggga | atatt | gt g | gatga | acccag | 60 |
| acto | ccact | tct (| cctca | aacto | gt ca | atcct | tgga | a caç | gaaga | gaat | ccat | ctc | ctg d | caggt | ctagt | 120 |
| caaa | agcci | tcg t | cacac | cagto | ga tọ | ggaaa | acaco | c tac | ettga | aatt | ggct | tcaç | gca ç | gaggo | ccaggc | 180 |

cagcetecaa gaeteetaat ttatatgatt tetaaeeggt tetetggggt eecagaeaga 240

300 ttcagtggca gtggggcagg gacagatttc acactgaaaa tcagcagggt ggaagctgag gatgtcgggg tttattactg catgcaagct acagaatctc ctcagacgtt cggccaaggg 360 accaaggtgg aaatcaaacg aactgtggct gcaccatctg tcttcatctt cccgccatct 420 454 gatgagcagt tgaaatctgg aagggcctct gttg <210> 8 <211> 113 <212> PRT <213> Homo sapiens <400> 8 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Ser Thr Val Ile Leu Gly 10 Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser 25 20 Asp Gly Asn Thr Tyr Leu Asn Trp Leu Gln Gln Arg Pro Gly Gln Pro 40 35 Pro Arg Leu Ieu Ile Tyr Met Ile Ser Asn Arg Phe Ser Gly Val Pro 50 55 60 Asp Arg Phe Ser Gly Ser Gly Ala Gly Thr Asp Phe Thr Leu Lys Ile 70 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala 85 90 Thr Glu Ser Pro Gln Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys 105 100

Arq

<210> 9 <211> 529 <212> DNA <213> Homo sapiens

<400> 9

| tctggattca | ctttcagtaa | cgcctggatg | acctgggtcc | gccaggctcc | agggaagggg | 120 |
|------------|------------|------------|------------|------------|------------|-----|
| ctggagtggg | ttggccgtat | taaaaggaga | actgatggtg | ggacaacaga | ctacgctgca | 180 |
| cccgtgaaag | gcagattcac | catctcaaga | gatgattcaa | aaaacacgct | gtatctgcaa | 240 |
| atgaacaacc | tgaaaaacga | ggacacagcc | gtgtattact | gtacctcagt | cgataatgac | 300 |
| gtggactact | ggggccaggg | aaccctggtc | accgtctcct | cagcttccac | caagggccca | 360 |
| teegtettee | ccctggcgcc | ctgctccagg | agcacctccg | agagcacagc | cgccctgggc | 420 |
| tgcctggtca | aggactactt | ccccgaaccg | gtgacggtgt | cgtggaactc | aggcgccctg | 480 |
| accagcggcg | tgcacacctt | cccggctgtc | ctacagtcct | caggactct | | 529 |

<210> 10

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<222> (1)..(4)

<223> Xaa is any amino acid

<400> 10

Xaa Xaa Xaa Glu Gln Ser Gly Gly Val Val Lys Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala 20 25 30

Trp Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Gly Arg Ile Lys Arg Arg Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala 50 55 60

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 65 70 75 80

Leu Tyr Leu Gln Met Asn Asn Leu Lys Asn Glu Asp Thr Ala Val Tyr 85 90 95

Tyr Cys Thr Ser Val Asp Asn Asp Val Asp Tyr Trp Gly Gln Gly Thr 100 105 110

| <210> | 11 | | | | | |
|--------|------|------------|------------|------------|------------|------------|
| <211> | 447 | | | | | |
| <212> | DNA | | | | | |
| <213> | Home | o sapiens | | | | |
| | | | | | | |
| <400> | 11 | | | | | |
| ctgact | cagt | ctccactctc | cctgcccgtc | acccctggag | agccggcctc | catctcctgc |
| | | | | | | |
| aggtct | agtc | agagcctcct | gcatagtaat | ggatacaact | atttggattg | gtacctgcag |
| | | | | | | |
| aagcca | aaac | agtctccaca | gctcctgatc | tatttgggtt | ctaatcgggc | ctccggggtc |
| | | | | | | |
| cctgac | aggt | tcagtggcag | tggatcaggc | acagatttta | cactgaaaat | cagcagagtg |
| | | | | | | |

aagccagggc agtctcaca gctcctgatc tatttgggtt ctaatcgggc ctccggggtc 180 cctgacaggt tcagtggcag tggatcaggc acagatttta cactgaaaat cagcagagtg 240 gaggctgagg atattggtct ttattactgc atgcaagctc tacaaactcc gctcactttc 300 ggcggaggga ccaaggtgga catcaaacga actgtggctg caccatctgt cttcatcttc 360

60

120

420

ttctatccca gagaggccaa agtacag 447

ccgccatctg atgagcagtt gaaatctgga actgcctctg ttgtgtgcct gctgaataac

<210> 12 <211> 113 <212> PRT <213> Homo sapiens

<220>

<221> MISC_FEATURE <222> (1)..(3) <223> Xaa is any amino acid <400> 12

Xaa Xaa Xaa Leu Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser 20 25 30

Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser 35 40 45

Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro 50 55 60

| Asp 65 | Arg | Phe | Ser | Gly | Ser 70 | Gly | Ser | Gly | Thr | Asp 75 | Phe | Thr | Leu | Lys | Ile 80 | |
|------------------------------|----------------------|--------------------------|------------|-----------|-----------|-------|-------|------------|-----------|-----------|------|-------|-------|-----------|-----------|--------|
| Ser | Arg | Val | Glu | Ala 85 | Glu | Asp | Ile | Gly | Leu 90 | Tyr | Tyr | Суз | Met | Gln 95 | Ala | |
| Leu | Gln | Thr | Pro 100 | Leu | Thr | Phe | Gly | Gly 105 | Gly | Thr | Lys | Val | Asp | Ile | Lys | |
| Arg | | | | | | | | | | | | | | | | |
| <210 <211 <212 <213 | .> ! !> I | 13 538 DNA Homo | sap: | iens | | | | | | | | | | | | |
| <400 | | 13 agc 1 | tggad | gcagt | c go | gggg | gaggo | : tto | ggtad | cagc | ctgo | gggg | gtc (| cctga | agact | с 60 |
| tcct | gtg | cag (| cctct | ggat | it ca | acctt | cagt | aco | ctata | agca | tgaa | actgo | ggt (| ccgc | cagge | t 120 |
| ccac | ıgga | agg (| ggct | ggagt | eg go | gttto | catac | att | agaa | agta | gtad | ctagt | ac (| catat | acta | t 180 |
| gcac | ragto | ccc 1 | tgaad | aaaca | cor at | ttcac | ccato | e teo | caqco | gaca | atgo | ccaa | yaa ' | ttcad | ctata | .t 240 |
| | | | | | | | | | | | | | | | gactt | |
| | | | | | | | | | | | | | | | ccatc | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | ggctg | |
| ctgc | jt caa | agg (| actad | cttcc | cc c | gaaco | cggto | g aco | ggtgt | cgt | ggaa | actca | agg | cgcc | ctgac | ec 480 |
| agco | idca; | tgc a | acaco | ettec | cc go | gctgt | ccta | a caç | gtaat | cag | gact | ctad | ctc (| cctca | agca | 538 |
| <210 <211 <212 <213 | .> : !> : 3> : | 14 114 PRT Homo | sap: | iens | | | | | | | | | | | | |
| Gln 1 | Val | Gln | Leu | Glu 5 | Gln | Ser | Gly | Gly | Gly 10 | Leu | Val | Gln | Pro | Gly 15 | Gly | |

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr 20 25 30

35 40 45

Ser Tyr Ile Arg Ser Ser Thr Ser Thr Ile Tyr Tyr Ala Glu Ser Leu
50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Asp Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser 100 105 110

Ser Ala

<210> 15

<211> 490

<212> DNA

<213> Homo sapiens

<400> 15

gaaatccagc tgactcagtc tccactctcc tcacctgtca cccttggaca gccggcctcc 60 atctcctgca ggtctagtca aagcctcgta cacagtgatg gagacaccta cttgaattgg 120 cttcagcaga ggccaggcca gcctccaaga ctcctaattt ataagatttc tacccggttc 180 tctggggtcc ctgacagatt cagtggcagt ggggcaggga cagatttcac actgaaaatc agcagggtgg agactgacga tgtcgggatt tattactgca tgcaaactac acaaattcct 300 caaatcacct tcggccaagg gacacgactg gagattaaac gaactgtggc tgcaccatct 360 gtcttcatct tcccgccatc tgatgagcag ttgaaatctg gaactgcctc tgttgtgtgc 420 ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaaggtgga taacgccctc 480 490 caatcgggta

<210> 16

<211> 114

<212> PRT

<213> Homo sapiens

<400> 16

Glu Ile Gln Leu Thr Gln Ser Pro Leu Ser Ser Pro Val Thr Leu Gly
1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser 25 Asp Gly Asp Thr Tyr Leu Asn Trp Leu Gln Gln Arg Pro Gly Gln Pro Pro Arg Leu Leu Ile Tyr Lys Ile Ser Thr Arg Phe Ser Gly Val Pro 50 55 60 Asp Arg Phe Ser Gly Ser Gly Ala Gly Thr Asp Phe Thr Leu Lys Ile 65 70 75 Ser Arg Val Glu Thr Asp Asp Val Gly Ile Tyr Tyr Cys Met Gln Thr 90 Thr Gln Ile Pro Gln Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile 100 105 110 Lys Arg <210> 17 <211> 568 <212> DNA <213> Homo sapiens <400> 17 caggtgcagc tggagcagtc ggggggaggc gtggtccagc ctggggaggtc cctgagactc 60 tectgtgeag egtetggatt eacetteagt egetatggea tgeactgggt eegecagget 120 ccaggcaagg ggctgaaatg ggtggcagtt atatggtatg atggaagtaa taaactctat gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240 ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgc gagagattac 300 tatgataata gtagacatca ctgggggttt gactactggg gccagggaac cctggtcacc 360 gtetecteag ettecaceaa gggeecatee gtetteeece tggegeeetg etceaggage 420 acctccgaga gcacagccgc cctgggctgc ctggtcaagg actacttccc cgaaccggtg 480 acggtgtcgt ggaactcagg cgccctgacc agcggcgtgc acaccttccc ggctgtccta 540

cagtecteag gaetetaete eeteagea

568

```
<210> 18
<211> 124
<212> PRT
<213> Homo sapiens
<400> 18
Gln Val Gln Leu Glu Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
                            10
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
                 25
Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Lys Trp Val
                       40
      35
Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Leu Tyr Ala Asp Ser Val
                  55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
        70 75
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
             85
                          90
Ala Arg Asp Tyr Tyr Asp Asn Ser Arg His His Trp Gly Phe Asp Tyr
          100
                            105
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala
       115
                        120
<210> 19
<211> 472
<212> DNA
<213> Homo sapiens
<400> 19
gacatccage tgacccagte tecatectee etgtetgeat etgtaggaga cagagtcace
atcacttgcc gggcaagtca gagtatttat agttatttaa attggtatca gcagaaacca
                                                                 120
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatcc
                                                                 180
aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct
gaagattttg caacttacta ctgtcaacag agttacagta cccctccgac gttcggccaa
                                                                 300
                                                                 360
gggaccaagg tggaaatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcca
```

| cccaga | gagg | ccaaa | agtac | a gt | ggaa | aggtç | gat | caaco | gccc | tcca | aatco | ggg 1 | ta | | , | 472 |
|-------------------------|-------|-------|----------|------|------|-------|-----|-----------|------|------|-------|-------|-----------|-----|---|-----|
| <210> <211> <212> | 108 | | | | | | | | | | | | | | | |
| <213> <400> | | sapi | Lens | | | | | | | | | | | | | |
| Asp Ile 1 | e Glr | n Leu | Thr 5 | Gln | Ser | Pro | Ser | Ser 10 | Leu | Ser | Ala | Ser | Val 15 | Gly | | |

tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat

420

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Se